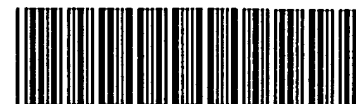


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/656 270  
Source: IFWO  
Date Processed by STIC: 10/28/2005

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 10/28/2005

PATENT APPLICATION: US/10/656,270

TIME: 10:21:08

Input Set : N:\Crf3\RULE60\10656270.raw.txt

Output Set: N:\CRF4\10272005\J656270.raw

```

1 <110> APPLICANT: Cech, Thomas R.
2     Zaug, Arthur J.
3     Been, Michael D.
4 <120> TITLE OF INVENTION: RNA RIBOZYME POLYMERASES, DEPHOSPHORYLASES, RESTRICTION
5     ENDORIBONUCLEASES AND METHODS
6 <130> FILE REFERENCE: MBHB00-983-G
7 <140> CURRENT APPLICATION NUMBER: US/10/656,270
8 <141> CURRENT FILING DATE: 2003-09-05
9 <150> PRIOR APPLICATION NUMBER: US/09/686,341
10 <151> PRIOR FILING DATE: 2000-10-10
11 <150> PRIOR APPLICATION NUMBER: 09/005,325
12 <151> PRIOR FILING DATE: 1998-01-09
13 <150> PRIOR APPLICATION NUMBER: 08/671,824
14 <151> PRIOR FILING DATE: 1996-06-05
15 <150> PRIOR APPLICATION NUMBER: 08/278,624
16 <151> PRIOR FILING DATE: 1994-07-21
17 <150> PRIOR APPLICATION NUMBER: 07/843,737
18 <151> PRIOR FILING DATE: 1992-02-28
19 <150> PRIOR APPLICATION NUMBER: 07/562,672
20 <151> PRIOR FILING DATE: 1990-08-03
21 <150> PRIOR APPLICATION NUMBER: 06/937,327
22 <151> PRIOR FILING DATE: 1986-12-03
23 <160> NUMBER OF SEQ ID NOS: 16
24 <170> SOFTWARE: PatentIn Ver. 2.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 10
28 <212> TYPE: RNA
29 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
32     nucleic acid molecule.
33 <400> SEQUENCE: 1
34     augcuggaaa
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 11
38 <212> TYPE: RNA
39 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
42     nucleic acid molecule.
43 <220> FEATURE:
44 <221> NAME/KEY: misc_feature
45 <222> LOCATION: (6)

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10

## RAW SEQUENCE LISTING

DATE: 10/28/2005

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TIME: 10:21:08

Input Set : N:\Crf3\RULE60\10656270.raw.txt

Output Set: N:\CRF4\10272005\J656270.raw

46 <223> OTHER INFORMATION: "c" at position 6 may be optionally present or absent

47 <400> SEQUENCE: 2

48       aaucaacgcag g 11

50 <210> SEQ ID NO: 3

51 <211> LENGTH: 12

52 <212> TYPE: RNA

53 <213> ORGANISM: Artificial Sequence

54 <220> FEATURE:

55 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized

56       nucleic acid molecule.

57 <220> FEATURE:

58 <221> NAME/KEY: misc\_feature

59 <222> LOCATION: (11)

60 <223> OTHER INFORMATION: n stands for a, u, g, or c.

61 <400> SEQUENCE: 3

W--> 62       ucagagacua na 12

64 <210> SEQ ID NO: 4

65 <211> LENGTH: 11

66 <212> TYPE: RNA

67 <213> ORGANISM: Artificial Sequence

68 <220> FEATURE:

69 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized

70       nucleic acid molecule.

71 <400> SEQUENCE: 4

72       aagauauagu c 11

74 <210> SEQ ID NO: 5

75 <211> LENGTH: 13

76 <212> TYPE: RNA

77 <213> ORGANISM: Artificial Sequence

78 <220> FEATURE:

79 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized

80       nucleic acid molecule.

81 <400> SEQUENCE: 5

82       ggcccucuaa aaa 13

84 <210> SEQ ID NO: 6

85 <211> LENGTH: 11

86 <212> TYPE: RNA

87 <213> ORGANISM: Artificial Sequence

88 <220> FEATURE:

89 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized

90       nucleic acid molecule.

91 <400> SEQUENCE: 6

92       uccucugccu c 11

94 <210> SEQ ID NO: 7

95 <211> LENGTH: 11

96 <212> TYPE: RNA

97 <213> ORGANISM: Artificial Sequence

98 <220> FEATURE:

99 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized

## RAW SEQUENCE LISTING

DATE: 10/28/2005

PATENT APPLICATION: US/10/656,270

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Input Set : N:\CrF3\RULE60\10656270.raw.txt

Output Set: N:\CRF4\10272005\J656270.raw

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100     nucleic acid molecule.
101 <400> SEQUENCE: 7
102     aacucuaaga g                                     11
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 11
106 <212> TYPE: RNA
107 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
110     nucleic acid molecule.
111 <400> SEQUENCE: 8
112     uccuuuuuuu g                                     11
114 <210> SEQ ID NO: 9
115 <211> LENGTH: 11
116 <212> TYPE: RNA
117 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
120     nucleic acid molecule.
121 <400> SEQUENCE: 9
122     cacucucagu a                                     11
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 11
126 <212> TYPE: RNA
127 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
130     nucleic acid molecule.
131 <400> SEQUENCE: 10
132     uauuuucucc u                                     11
134 <210> SEQ ID NO: 11
135 <211> LENGTH: 11
136 <212> TYPE: RNA
137 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
140     nucleic acid molecule.
141 <400> SEQUENCE: 11
142     uccucuagag u                                     11
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 414
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Non-template DNA coding
for
150     L IVS RNA
151 <400> SEQUENCE: 12
152     gaaatagcaa tatttacctt tggaggggaaa agttatcagg catgcacctg gtagctagtc 60
153     tttaaaccaa tagattgcat cggtttaaaa ggcaagaccg tcaaattgcg ggaaaggggt 120

```

## RAW SEQUENCE LISTING

DATE: 10/28/2005

PATENT APPLICATION: US/10/656,270

TIME: 10:21:08

Input Set : N:\CrF3\RULE60\10656270.raw.txt

Output Set: N:\CRF4\10272005\J656270.raw

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154      caacagccgt tcagtaccaa gtctcagggg aaactttgag atggccttgc aaaggggtatg 180
155      gtaataagct gacggacatg gtcctaacca cgcagccaag tcctaagtca acagatcttc 240
156      tgttgatatg gatgcagttc acagactaaa tgtcggtcgg ggaagatgta ttcttctcat 300
157      aagatatagt cggacctctc cttaatggga gctagcggat gaagtgatgc aacactggag 360
158      gctgggaact aatttgtatg cgaaagtata ttgattagtt ttggagtact cgcc      414
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 18
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
166      nucleic acid molecule.
167 <400> SEQUENCE: 13
168      taatacgact cactatag      18
170 <210> SEQ ID NO: 14
171 <211> LENGTH: 29
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
176      nucleic acid molecule.
177 <400> SEQUENCE: 14
178      attatgctga gtgatatccg gagattttt      29
180 <210> SEQ ID NO: 15
181 <211> LENGTH: 12
182 <212> TYPE: RNA
183 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
186      nucleic acid molecule.
187 <400> SEQUENCE: 15
188      ggccucuaaa aa      12
190 <210> SEQ ID NO: 16
191 <211> LENGTH: 75
192 <212> TYPE: RNA
193 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthesized
196      nucleic acid molecule.
197 <400> SEQUENCE: 16
198      augaccauga uuacgaauc gagcucgggu aacuaugacu cucuaaaggu agccaaaugc 60
199      cucgucacaa gcuug      75

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/656,270

DATE: 10/28/2005  
TIME: 10:21:09

Input Set : N:\Crf3\RULE60\10656270.raw.txt  
Output Set: N:\CRF4\10272005\J656270.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 11

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 4

Seq#:12; Line(s) 149

**VERIFICATION SUMMARY**

DATE: 10/28/2005

PATENT APPLICATION: US/10/656,270

TIME: 10:21:09

Input Set : N:\CrF3\RULE60\10656270.raw.txt

Output Set: N:\CRF4\10272005\J656270.raw

L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0